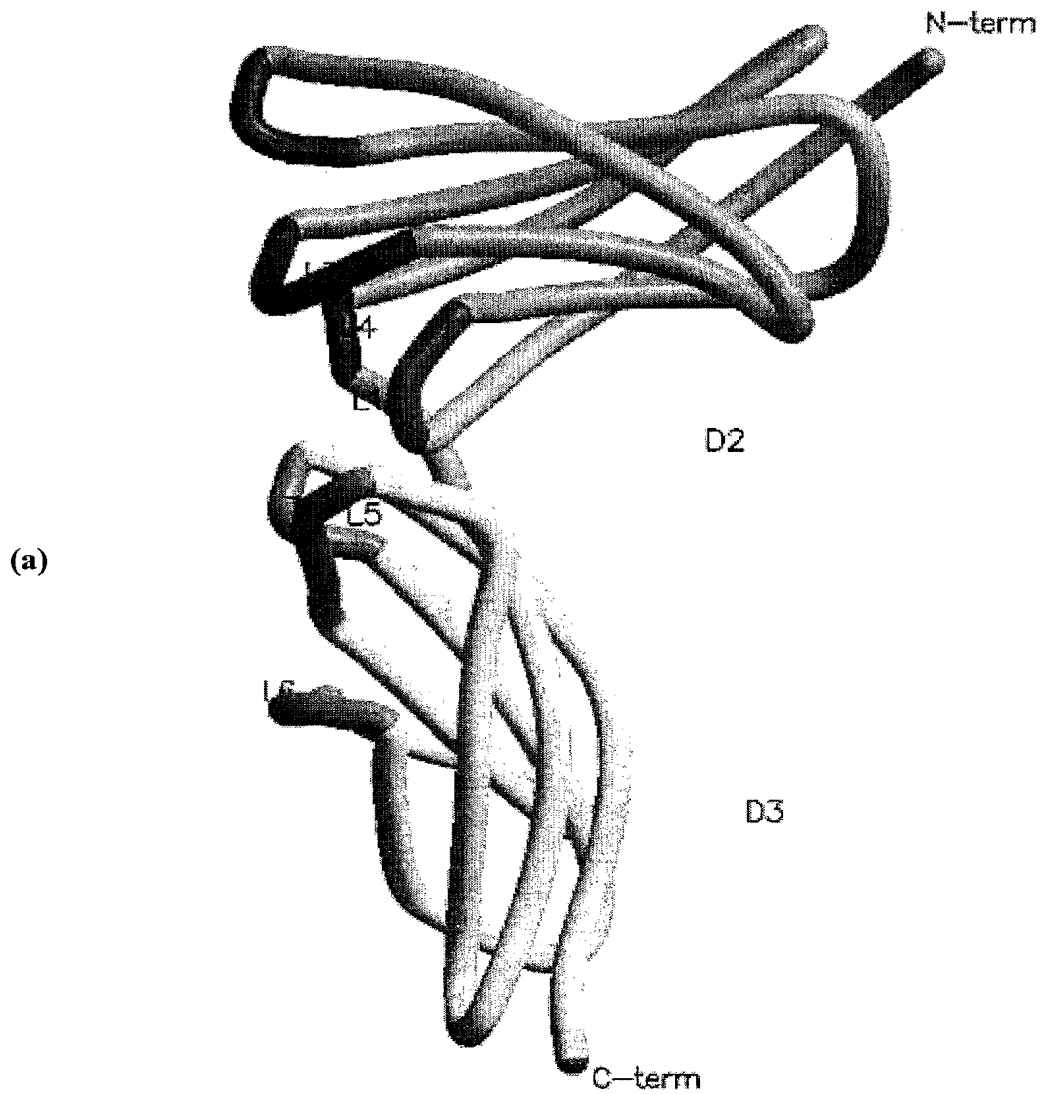
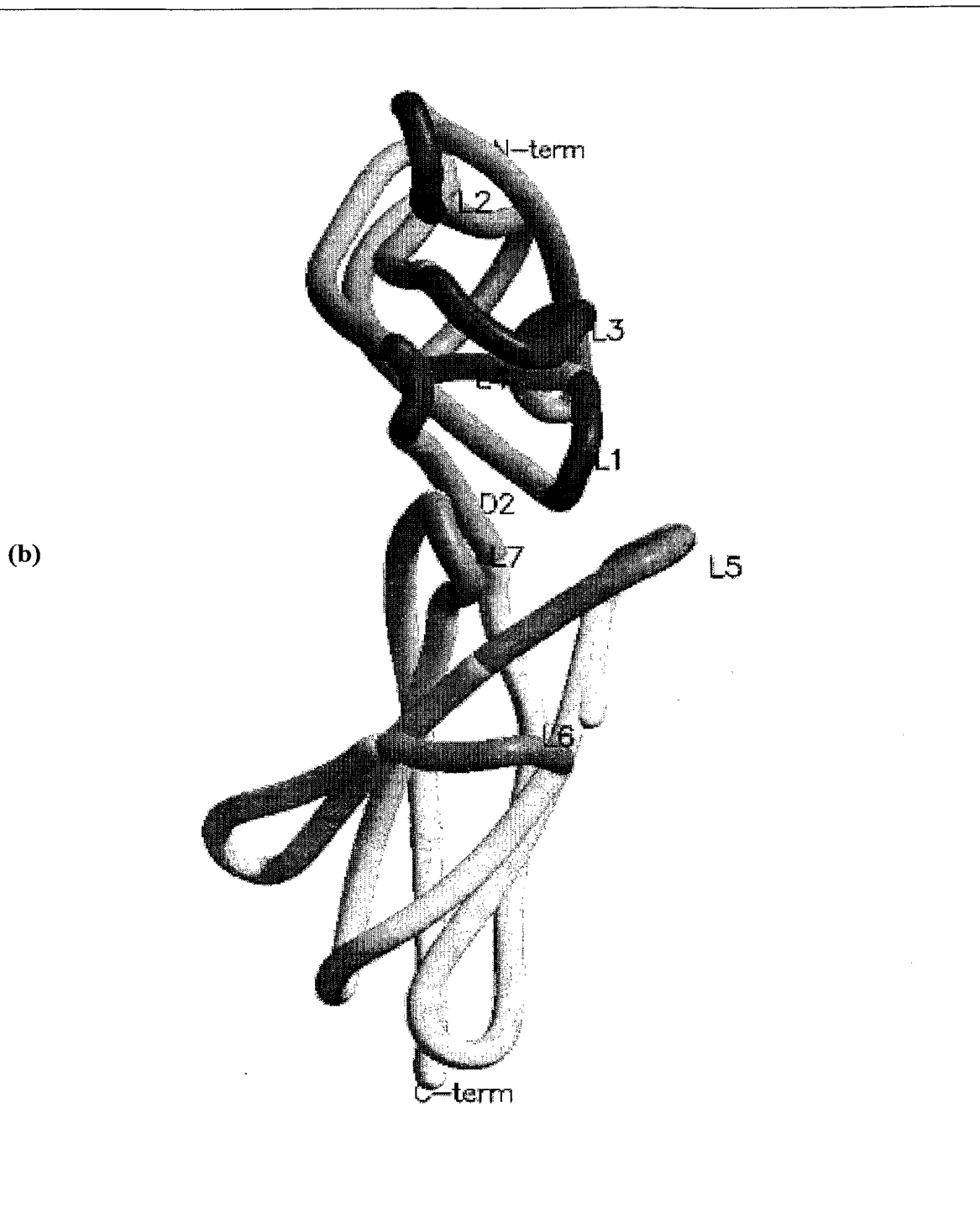


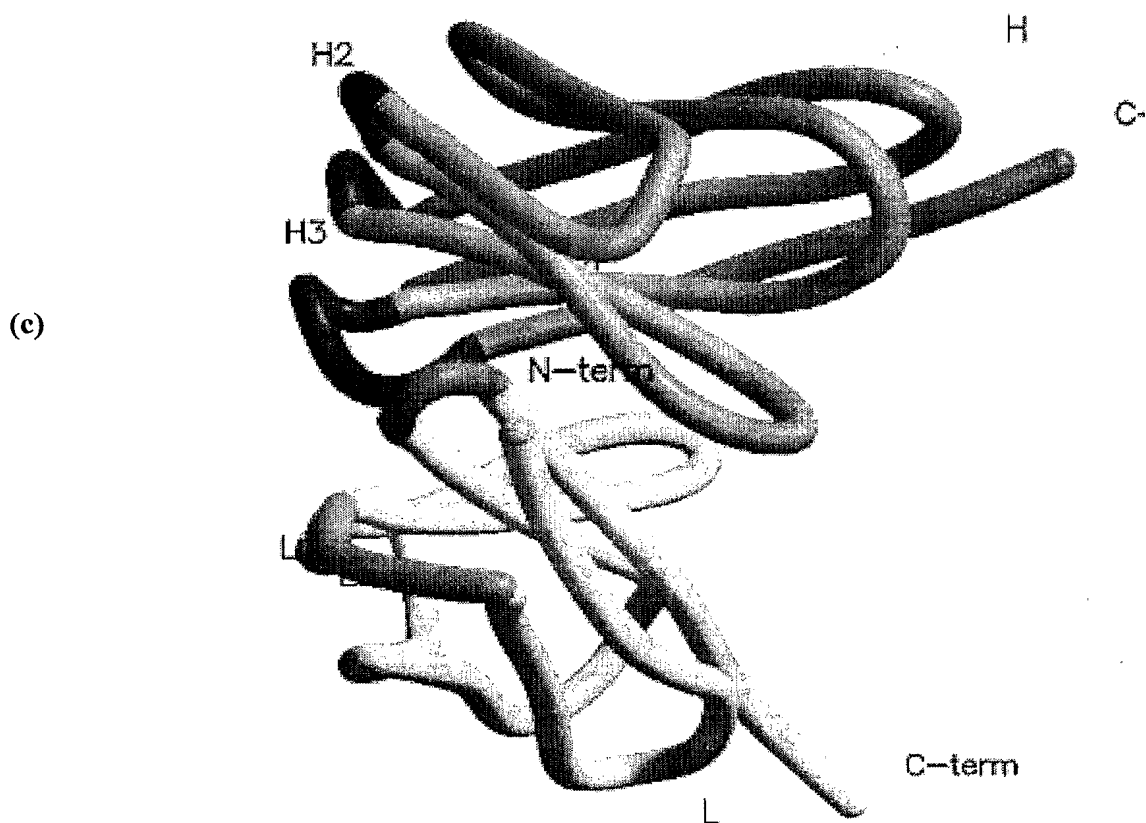
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**Figure 1(a)**

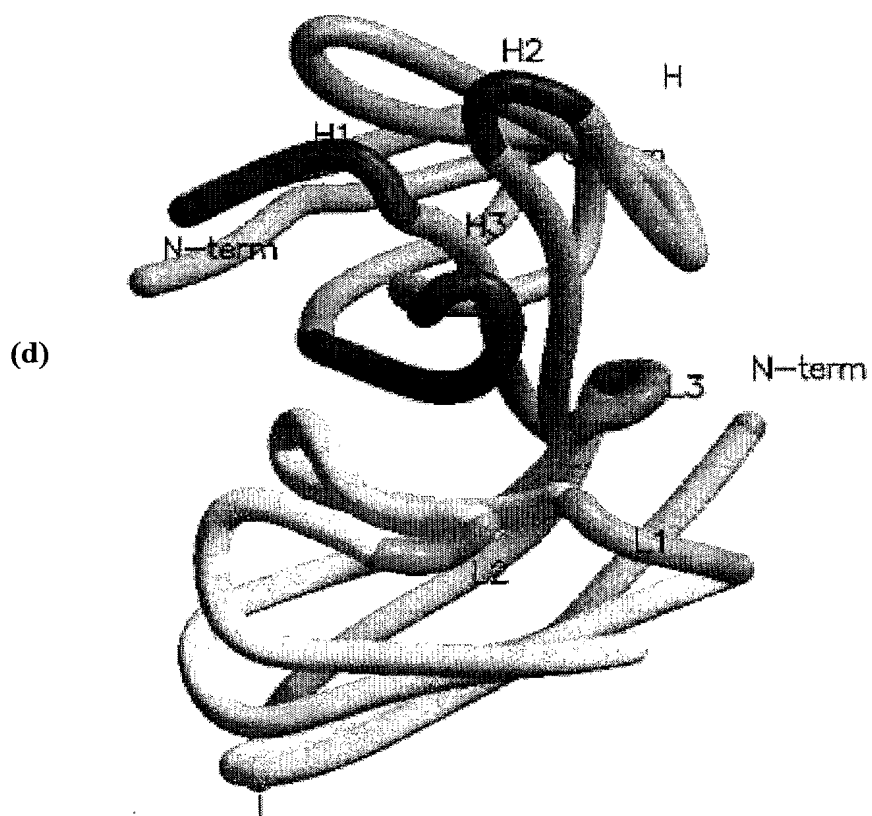
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**Figure 1(b)**

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**Figure 1(c)**

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**Figure 1(d)**

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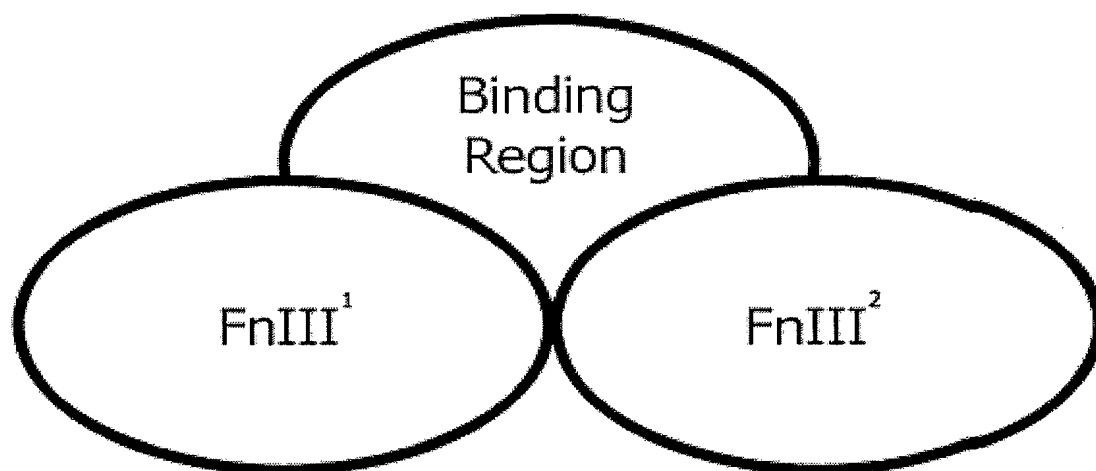
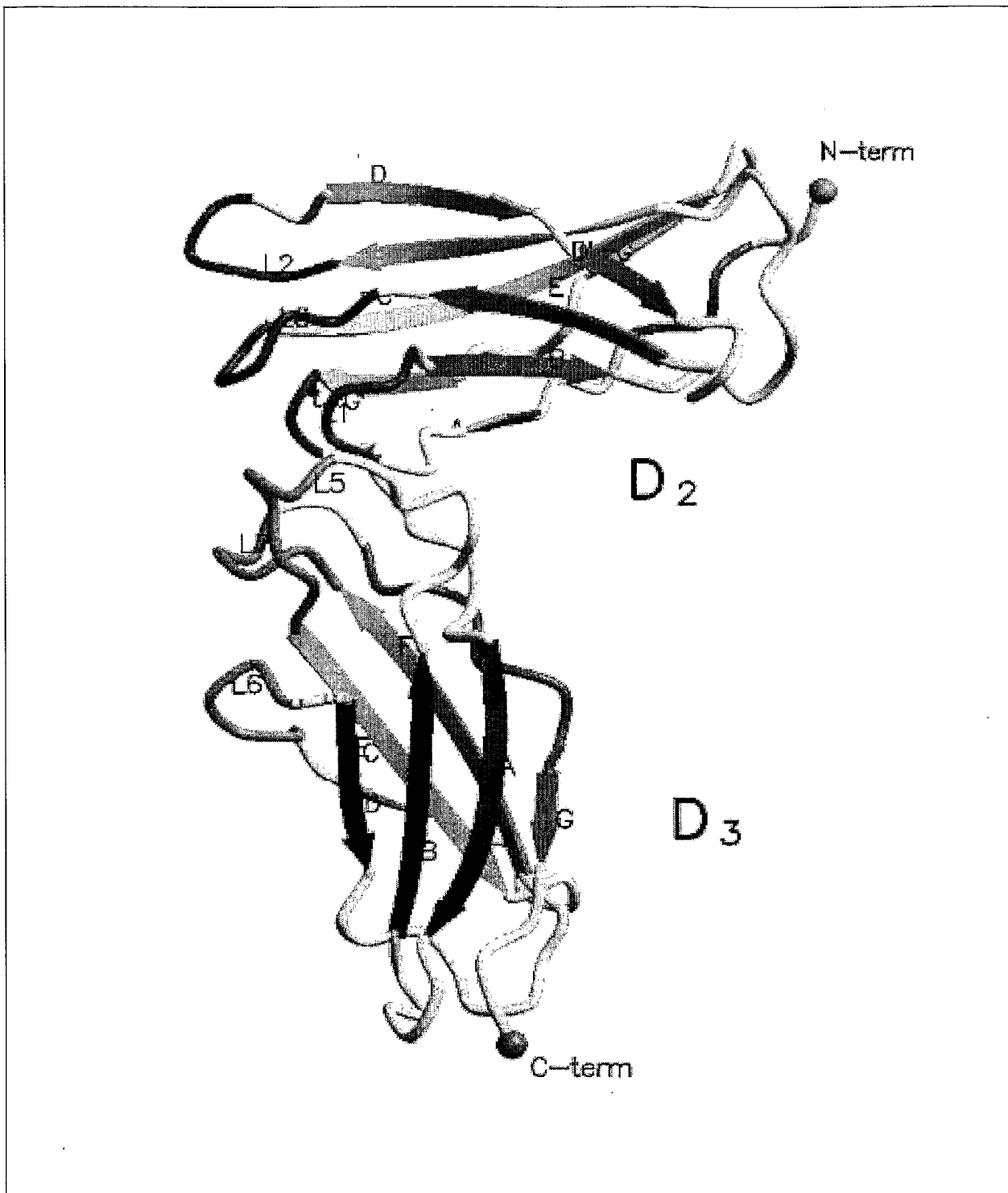
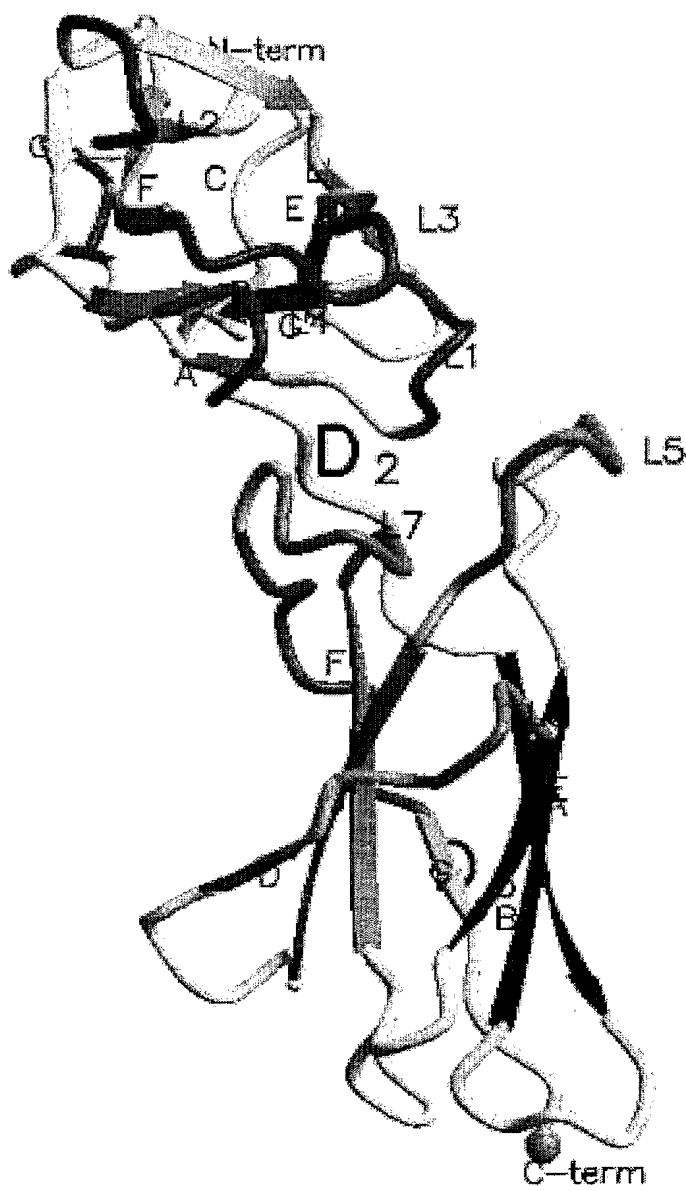


Figure 1A

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**Figure 2(a)**

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**Figure 2(b)**

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10 20 30 40 50
LAPRRCPAQE VARGVLTSLP GDSVTLTCLPG VEPEDNATVH WVLRKPAAGS

60 70 80 90 100
HPSRWAGMGR RLLLRVQLH DSGNYSCYRA GRPAGTVHLL VDVPPPEEPQLS

A#

110 120 130 140 150
CFRKSPLSNV VCEWGPRSTP SLTTKAVLLV RKFQNSPAED FQEPCCQYSQE

B##### C##### D,D'#####

L1 L2

160 170 180 190 200
SQKFSCQLAV PEGDSSFYIV SMCVASSVGS KFSKTQTFQG CGILQPDPPA

E##### F##### G##### G'##### A#

L3 L4

210 220 230 240 250
NITVTAVARN PRWLSVTWQD PHSWNSSFYR LRFELRYRAE RSKTFTTWMV

B##### C##### D#####

L5

260 270 280 290 300
KDLQHHCVIH DAWGLRHVV QLRAQEEFGQ GEWSEWSPEA MGTPWTESRS

E##### F##### G#####

L6 L7

310 320
PPAENEVSTP MQALTTNKDD DNIL

beta sheets; * loops; first domain (D2); second domain (D3)

Figure 3

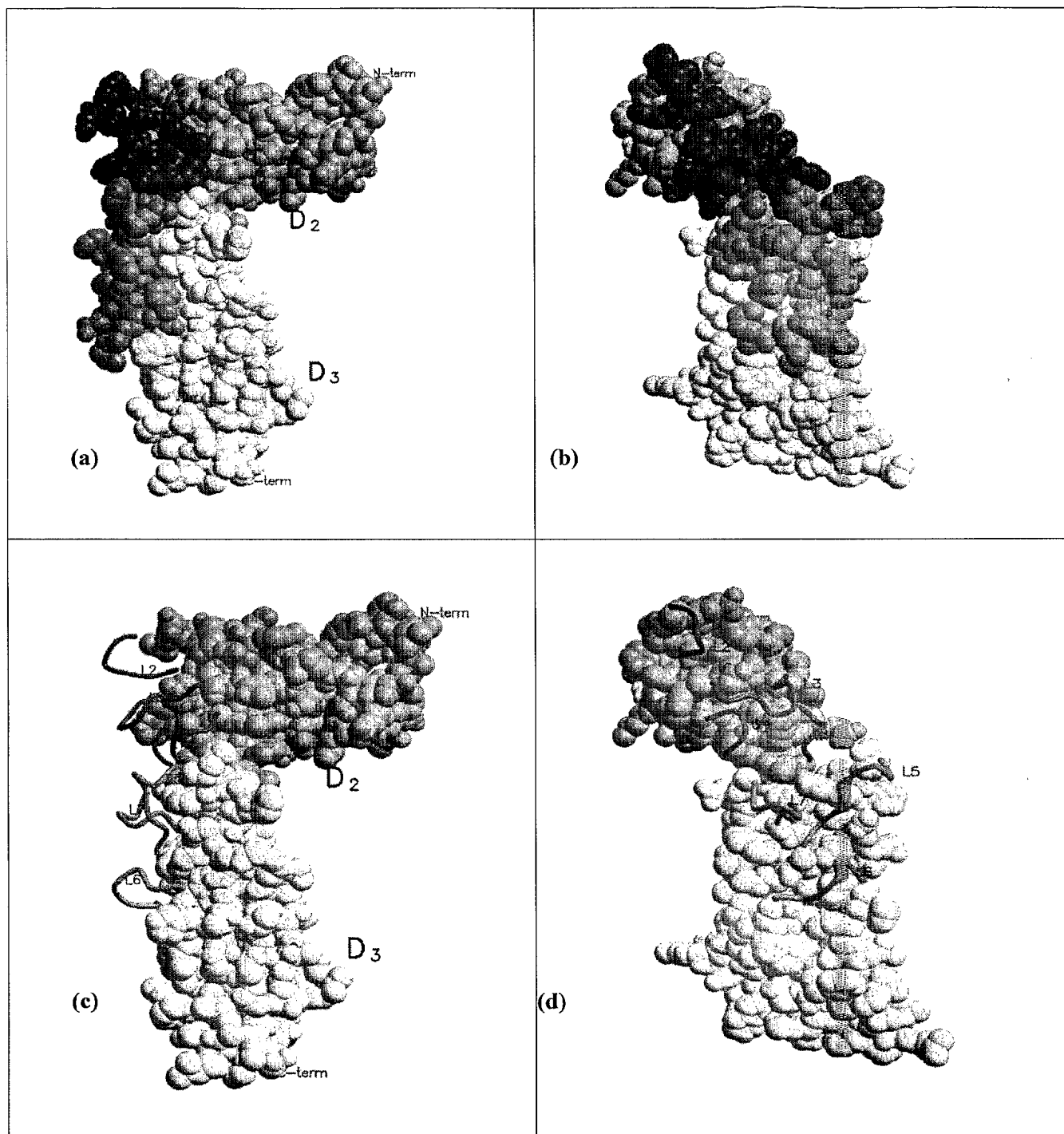
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Approximate positioning of each loop in four of the cytokine receptor family members. The loop positions could vary up to 3 amino acids either side of the box. For example Loop 6 of the prolactin receptor is defined as GQQTEF and not FAQQ as depicted here.

IL6RPRLRL	-----	VPPEEPQ-LSCFSPNK-ET	VCEWGRSTPSLTTK
P08887 IL6A_HUMAN	LHDSGNYSCY-RAGRPAGTVHLLV	VPPEEPQ-LSCFRKSPLSN	VCEWGRSTPSLTTK
Q14626 I11R_HUMAN	STDEGTYICQTLDGALGGTVTLQL	YPPARPV-VSCQAADY-ENF	SCTWSPSQISGLPTR
P16471 PRLR_HUMAN	MKENVASATVFTLLFLNTCLLNG	LPPGKPEIFKCRSPNK-ET	FTCWWRPGTDGGLPTN
Q99062 GCSR_HUMAN	-AFLSCCLNWGNSLQILDQVELRA	YPPAIPHNLSCLMNL	FTSSLICQWEPGPETHLPTS
IL6RPRLRL	AVLLVHRE-----	GETLMFQEP	CQYSQESQKFSCHEGKQYTSMWRTYIVSMSVASS
P08887 IL6A_HUMAN	AVLLVRKFQN-----	SPAEDFQEP	CQYSQESQKFSCQLAVPEGD-SSEYIVSMCVASS
Q14626 I11R_HUMAN	YLTSYRKKTVLGADSQR	RSPSTGWP	PCPD-PLGAARCVVHGAEFW--SQYRINVTEVNP
P16471 PRLR_HUMAN	YSLTYHRE-----	GETLMHECPDYITGGPNSCH	FEKGKQYTSMWRTYIMMVNATNQ
Q99062 GCSR_HUMAN	FTLKSFKSRNC-----	QTQGDSILD	CVPK-DGQSHCCIPRKHLLLYQNMGIWVQAENAL
IL6RPRLRL	VGSKFSDELYVDVTYILQ	PDPPANITVTAVA-RNPR---	WLSVTWQDPHLIDLK-TGWFT
P08887 IL6A_HUMAN	VGSKFSKTQTFQCGGILQ	PDPPANITVTAVA-RNPR---	WLSVTWQDPHSWNSS---FYR
Q14626 I11R_HUMAN	-LGASTRLLDVSLQSI	LRPDPQGLRVESVP-GYPR---	RLRASWTYPASWPCQ--PHFL
P16471 PRLR_HUMAN	MGSSFSDELYVDVTYIVQ	PDPPLELAVEVKQ-PEDR-KPYL	WIKWSPPTLIDLK-TGWFT
Q99062 GCSR_HUMAN	GTSMSPTLCLDPM	DVVKLEPPMLRTMDPSPEA	APPQAGCLQLCWEFPWQPGIHINQKCEL
IL6RPRLRL	LRFEELRYRAERSKTFTTW	FAG-QQHHSVIHDAWSGLRHVVQLRAKPD--	HGYWSEWSPEA
P08887 IL6A_HUMAN	LRFEELRYRAERSKTFTTW	MVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQGEWSEWSPEA	
Q14626 I11R_HUMAN	LKFERLQYRPAQH	PAWSTVEPAG--LEEVI	TDVAGLPHAVRV
P16471 PRLR_HUMAN	LLYEIRLKPEKAAEWEIHF	FAGQ-QTEFKILSLHPGQKYL	VQVRCKPD--HGYWSA
Q99062 GCSR_HUMAN	RHKPQGEASWALVGPLPLEAL-Q	YELCGLLP--ATAYTLQIR	CIRWPLPGHWS
IL6RPRLRL	MGTPWTE	-----	-----
P08887 IL6A_HUMAN	MGTPWTE	RSPPAENEVST-----	PMQALTTN---KDDDNILFRDSANATSLPVQ
Q14626 I11R_HUMAN	WGTPSTG	IPKEIPAWGQL-----	HTQPEVEP---QVDSPAPPRPSLQPHPRLLD
P16471 PRLR_HUMAN	FIQIPSD	TMNDTTVWISVAVLSAVICLIIVWAVAL	KGYSMTVCIFPPVPGPKIKGFDH
Q99062 GCSR_HUMAN	ELRTTER	PTVRLDTWWRQR-QLDPR	TVQLFWKVPVPLEEDSGRIQGYVVS-WRPSGQAGA

Figure 3A

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**Figure 4**

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mGCSF_122-334	YFAS	SN	SC	MHL	TINS	VCC	ED	ETHL
hGCSF_121-333	YFAT	HN	SC	MHL	TSS	ICC	ED	ETHL
hcommBR_26-240	ETIP	QNT	RC	NDY	TSHT	TCR	ADT	QAO
mcommBR_30-243	ETV	KT	QC	NDY	TNR	ICS	ADT	DAQ
mIL3BR_30-244	ETV	KT	EC	NDY	TNR	ICS	ADT	DAQ
hcommBR_240-439	GDEAC	QN	EC	FDE	AVS	SCS	ED	KEVAS
mcommBR_243-442	GDKAQ	QN	QC	FDE	QSH	HCS	ED	WTQTT
mIL3BR_244-441	GDKAQ	QN	QC	FDE	QSH	HCS	ED	WTQTT
hgp130_124-325	LDEKE	KN	SC	VNE	QKK	RCE	DD	RETHL
mgp130_124-323	FPDKN	TN	TC	VNE	QKN	LCC	DD	RETHL
hGHR_46-262	NSSKE	K	TK	RSNE	RET	SCH	TD	VHHTK
mH_GHR_46-271	SSSKR	R	TK	RSNE	RET	SCY	TE	DNEDLK
hIL12p40_122-328	EKNKTF	RCEAKN			SGRT	TCW	LT	ISTDL
mIL12p40_119-332	NFKNTE	KCEAKN			SGRT	TCW	LT	ORMDL
hEPOR_39-247	AAAL	SRGS	EE	LC	TER	ED	VCF	EEAASAGV
mEPOR_39-246	AAAL	SRGS	EE	LC	TER	ED	VCF	EEAASAGV
hIL6R_112-317	VDEET	Q	SC	RKS	PSN	VCE	ED	STSL
mIL6R_108-313	VDEET	Q	SC	RKN	PSN	VCE	ED	STSL
hIL4R_24-224	QNMKG	QE	TC	SDY	ISIST	CE	K	NGTNC
mIL4R_24-225	QSIK	QE	TC	SDY	ISIST	CE	K	NGTNC
hPRLR_24-229	GOLF	PKR	EE	TK	RSNE	KET	TCW	RD
mPRLR_19-224	GOSPP	GK	E	TK	RSNE	KET	TCW	RD
hCRLF1_133-342	LPEKE	VN	SC	SRN	ED	TCR	TP	GAHET
mCRLF1_136-345	LPEKE	VN	SC	SRN	ED	TCR	TP	GAHET
hIL12B2R_122-320	VDEEP	QN	SC	QKC	ED	TCR	TP	GAHET
mIL12B2R_135-336	VDEEP	QN	SC	QKC	ED	TCR	TP	GAHET
hIL11R_111-318	YDEAR	V	SC	QAD	EN	SC	TP	QVSL
mIL11R1_111-318	YDEAR	V	SC	QAD	EN	SC	TP	QVSL
mIL11R2_111-318	YDEAR	V	SC	QAD	EN	SC	TP	QVSL
hCNTFR_107-317	LPREP	V	SC	RSNT	KY	VCS	ED	THYI
mCNTFR_107-317	LPREP	V	SC	RSNT	KY	VCS	ED	THYI
hCR_23-229	GEPA	TLR	Q	RASR	LA	DCS	TP	GAHET
mCR_23-228	GEPA	TLR	Q	RASR	LA	DCS	TP	GAHET
hthromboR_27-285	DVS	ASDSE	K	SRT	ED	TCF	DEE	AAAS
mthromboR_27-277	DVS	ASDSE	K	SRT	ED	TCF	DEE	AAAS
hleptinR_429-638	DUNIN	SC	ETD		TK	TCR	ST	IQSLA
mleptinR_427-636	DUNIN	SC	ETD		TK	TCR	ST	IQSLA
hleptinR_124-332	DUNIN	QC	LKC		D	KIL	ICY	ESL
mleptinR_124-330	DUNIN	QC	LKC		D	KIL	ICY	ESL
hIL21R_17-229	AWSCD	TC	TDY		WT	TCV	ED	THYI
mIL21R_17-229	AWSCD	TC	TDY		WT	TCV	ED	THYI
hthromboR_285-490	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mthromboR_277-481	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hwsx1_34-232	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mwsx1_29-226	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL2BR_30-235	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL2BR_30-236	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL9R_48-261	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL9R_47-261	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL12B1R_42-234	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL12B1R_43-256	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL13A1R_123-337	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL13A1R_121-333	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL13A2R_134-333	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL13A2R_128-327	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL5R_123-332	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL5R_120-329	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hGMCsFR_115-348	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mGMCsFR_124-352	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL3R_100-292	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL3R_113-322	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hcommGR_39-253	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mcommGR_39-254	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hTSLPR_30-216	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mTSLPR_27-217	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hLIFR_48-246	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mLIFR_47-241	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hLIFR_331-534	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mLIFR_326-529	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hOSMR_25-140	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mOSMR_25-139	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hOSMR_235-429	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mOSMR_232-426	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hIL7R_28-236	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mIL7R_28-236	QCC	TLD			KN	TCQ	QOQ	DHASSQ
domecyt1_115-330	QCC	TLD			KN	TCQ	QOQ	DHASSQ
domecyt2_176-391	QCC	TLD			KN	TCQ	QOQ	DHASSQ
consensus	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hGLMR	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mGLMR	QCC	TLD			KN	TCQ	QOQ	DHASSQ
mChirica_cedric	QCC	TLD			KN	TCQ	QOQ	DHASSQ
hChirica	QCC	TLD			KN	TCQ	QOQ	DHASSQ
ruler	QCC	TLD			KN	TCQ	QOQ	DHASSQ

Figure 5A

[illegible]

Figure 5A (cont)

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KNLLLYQYNAWMOENMSSSESKLCDDMDKLEPTM-KOLDICEDV 122
KHLLLYQYNAWMOENASTMSBQLCDDMDKLEPTMLRTDYSPEAA 123
QSTVVDVDVYSQDRN--LSTRLTVT-T-QOQREPRDQSTDO--- 120
TRFSITNEDYSRDS--DLGIQLMFAQOQOFTPHQNSSSSE--- 119
TRFSNNDNDYSQDR--DLGIQLMFAQOQOFTPHQNSSSSE--- 120
KQATHQOISQ--RRAEKHKSSVNCHAPES--MTED--- 112
RESAHSQOISKLE---QCKFMSYNNCHAPT--MTENR--- 113
RESAHSQOISKLE---QCKFMSYNNCHAPILNOENR--- 112
-STVYFVN--EWEENAKVTSDHINDVYKKNPHNHSINSEELS- 114
-MTYFVN--EWEENAKVSSSEINDVVKKTYYNSTINSEELS- 112
SFTSIWIPCKTNS--STVDEKCSIDEQDPAIANITLLNVS- 119
SYTSIWIIPCKTNS--DLLDQKCTIDEQDPAIANITLLNIS- 127
PAAESLPEMDVHK--KYENYTSSERD--KDDPAQOKKILK--- 126
TAETSLPEMDVHK--KYENYTSSERD--KDDPAQOKKILK--- 128
ADTSFVPEMDVHK--KYENYTSSERD--KDDPAQOKKILK--- 121
ADTSFVPEMDVHK--KYENYTSSERD--KDDPAQOKKILK--- 120
-REDSST--ISCHASSSKTSTQTOCCQDPAIANITAVARN--- 119
-LEEDKVIY--ISCHASSSKSSHNEAHSILKQDPAIANITAVARN--- 120
DDVVSADNTD--WQ--QOLLWKCSKSEKERNPHNITHTNVS--- 113
-RTVQSDR--EWEENAKVSSSEINDVVKKTYYNSTINSEELS- 114
QYTSIWIIPCKTNS--STVDEKCSIDEQDPAIANITLLNVS- 119
QYTSIWIIPCKTNS--STVDEKCSIDEQDPAIANITLLNVS- 118
-DLALFT--EWEENAKVTSDHINDVYKKNPHNHSINSEELS- 116
-DLALFT--EWEENAKVTSDHINDVYKKNPHNHSINSEELS- 116
--ESSESNTKTVNS--SSSSLESTTLDRELPHWRKFKQKAS--- 117
-DLAESE--IRTLIND--SSSSLESTTLDRELPHWRKFKQKAS--- 120
---AEFWSQRNTEVNS--ASTLLD--RQSR--RDEQ--RQSR--RDEQ-- 123
---AEFWSQRNTEVNS--ASTLLD--RQSR--RDEQ--RQSR--RDEQ-- 123
---AEFWSQRNTEVNS--ASTLLD--RQSR--RDEQ--RQSR--RDEQ-- 123
MHFSTIKKSS--SSSNA--HNTAITDEFT--KDDPAQOKKILK--- 112
MHFSTIKKSS--SSSNA--HNTAITDEFT--KDDPAQOKKILK--- 112
VQLFSMAVNTTAVH--SSSSFVPEMDVHK--KYENYTSSERD-- 121
VHLFSTVPEMDVHK--SSSSFVPEMDVHK--KYENYTSSERD-- 118
-QEEVLFPEMDVHK--SSSSFVPEMDVHK--KYENYTSSERD-- 121
-QEEVLFPEMDVHK--SSSSFVPEMDVHK--KYENYTSSERD-- 121
--IFLLSE--TWIRNHS--SSSSFVPEMDVHK--KYENYTSSERD-- 122
--IFLLSE--TWIRNHS--SSSSFVPEMDVHK--KYENYTSSERD-- 123
-TAKLNDT--LCK--SSSSFVPEMDVHK--KYENYTSSERD-- 127
-RAKLYALTY--SSSSFVPEMDVHK--KYENYTSSERD-- 126
--FHMADDI--SSSSFVPEMDVHK--KYENYTSSERD-- 115
--QFSLDEVT--SSSSFVPEMDVHK--KYENYTSSERD-- 115
-RNDSIHL--SSSSFVPEMDVHK--KYENYTSSERD-- 119
-RNDSIHL--SSSSFVPEMDVHK--KYENYTSSERD-- 118
--EQLTMSDK--SSSSFVPEMDVHK--KYENYTSSERD-- 110
--EQLTMSDK--SSSSFVPEMDVHK--KYENYTSSERD-- 111
QKLTVDIT--SSSSFVPEMDVHK--KYENYTSSERD-- 116
QSLTVDIT--SSSSFVPEMDVHK--KYENYTSSERD-- 117
--DNFTIT--SSSSFVPEMDVHK--KYENYTSSERD-- 113
--DNFTIT--SSSSFVPEMDVHK--KYENYTSSERD-- 113
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LEASDYK--SSSSFVPEMDVHK--KYENYTSSERD-- 118
LDSSDYK--SSSSFVPEMDVHK--KYENYTSSERD-- 118
ILSKGRDW--SSSSFVPEMDVHK--KYENYTSSERD-- 129
INSKFEQ--SSSSFVPEMDVHK--KYENYTSSERD-- 130
--LSLTSRNY--SSSSFVPEMDVHK--KYENYTSSERD-- 117
--LSLTSRNY--SSSSFVPEMDVHK--KYENYTSSERD-- 117
RLSSSSQ--SSSSFVPEMDVHK--KYENYTSSERD-- 123
NSFDLV--SSSSFVPEMDVHK--KYENYTSSERD-- 137
--KEIHL--SSSSFVPEMDVHK--KYENYTSSERD-- 130
--EDIQY--SSSSFVPEMDVHK--KYENYTSSERD-- 130
--QDIDY--SSSSFVPEMDVHK--KYENYTSSERD-- 103
--ARGL--SSSSFVPEMDVHK--KYENYTSSERD-- 105
--LSHGD--SSSSFVPEMDVHK--KYENYTSSERD-- 103
--LSHGD--SSSSFVPEMDVHK--KYENYTSSERD-- 99
--LQNE--SSSSFVPEMDVHK--KYENYTSSERD-- 117
--GQEH--SSSSFVPEMDVHK--KYENYTSSERD-- 117
-----LAERLT--SSSSFVPEMDVHK--KYENYTSSERD-- 21
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--RIT--SSSSFVPEMDVHK--KYENYTSSERD-- 118
--DICS--SSSSFVPEMDVHK--KYENYTSSERD-- 110
--LQSR--SSSSFVPEMDVHK--KYENYTSSERD-- 114
--LQSR--SSSSFVPEMDVHK--KYENYTSSERD-- 114
130.....140.....150.....160.....170.....180

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Figure 5A (cont)

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C W S K P K S E M B Q E C R Q O L K G A N T L V F H
C Q C E E Q E L I N O K C R K O R G E A S A L G H
D H L T S V L Q S P O S H W S S G D E V K R L Q S W E D A I L S
D R L E S V S L Q D A Q S W S S K D E A K R L Q S W E D Y S H T
D H L E S V S L Q D S Q S W S S K D E A K R L Q S W E D S S H T
D S S R E T K M R E I D T Q R K D T A T W K D S K T E T
D S S H E T O K M Y S I E T Q O K K K S D S W E D S K T E N
D S S H E T O K I K I D T Q O K K K S E S W K D S K T E N L
S I K T T N S I K S I I K N Q R T K D A S T S O V E
S I K S V S S G L G L D K S D Q R T K D A S T I Q V L E
A D Q R E A E R N A D I Q K M V E Q K E V N E T K K M D E
Q D Q S Q P P N D V L K I I E Q K E V N E S K K V G
Q O E S E Y D D T S T S F S T C Q O G K S K R E K K D R F T
Q O E S E Y D D S T S F S K F R Q R K K E K M K E T E E C N
Q H V R L E D E T M T S H R E D S A G N A Q S Q O R E
S H V R L E D E T M T H R E D S A G N R A G G T O R V E V L
R W S T Q D P H S N S S Y R R E R R A E R S K T T T M
R W K S Q H P E T D S Y L Q C R R E V W S K E T V L L
D E L T S N N Y P E D N L N H T A N W S E N D A D R I N
D E L T N N Y P S N N L K D I S M N S R E D N A E I V N
E Y W K S S E T L E D L K T O F T L R K K E K A E E I F A
T X W K L E T T I D V K I G F T E R K S E E A D E I E F T
Q O S R V S P A K D F T Q K Y O R R V E D S V D K V D D
Q O S R V S P A K D F T Q K Y O R R V E D S V D K V D D
S R G T Y R D E G L V L N R R R S N S R L W N V N T K
S R G T Q E D E G Q V L N Q R Q E L N S T S W N V N T N
R R R S T Y P A S R C O F L K R R R P A Q H A S T E E
R R H S T Y P A S R R O F L K R R R P A Q H A S T E E
R R H S T Y P A S R R O F L K R R R P A Q H A S T E E
R R E T Q T S T D E S F K F R R L I L D Q H E L S
R R E T Q T S T D E S F K F R R L I L D Q H E L S
Q O Q E P L S F E T S K W R K R Q G A A R H R C
Q R O L H E P A S F E D F S K R R R R A S H R Q
G E Q S E E P A E I S D L R Y E R C R D E K N S T O T V Q L A T E T C C R L O
G E Q H E A P A E I S D L R H E R C T D S S N A T A P S V Q L S T E T C C R L W
Q L K S E K V F E N N Q C R R E L S K E V Q K M E V Y
Q L K S E K V F E N N Q C R R E L S K E I Q K T E V F
Q N K S S S P E L F F T Q O K S E N S T T V I R E A D K I V S
Q N K S S S P E L F F T Q O K K L E N S T I V R E A E I V S
Q O N S R S D Y E D F Y N L K O K Q C R N R O D P W A V S E R K L I S
G R D S D S Y D E R S N Y L R K Q C R N R L D E Y A V R E V T K L I S
G R E E Q H S S A Q E T C R T C E E H Q D K V E E
G R E E Q H S S A Q E T C R T C E E R E D K V E E
L E T H A E T W E S K V I C O H R R C Q S A A W T L E P E L K T
L E T Q A E V W D O K A T C O R K E C O A E A W T L E P O L K
H R C N S E I S Q A S H E E R H E T R T L S E C H T W E E E L T L K
Q R C N S K V S Q V S H I E R Y E R R R L L G H S W E D S V S L K
H C I T S I S A E M T L S E A K K Q E A W E O Q H R D H I V
R C V T G I N L A E L E T S S A K K Q E A W E A R H K D R I V E
Q R E E T E D N O V A E Q R R T E S S E W K L D C E O D D
Q R D N V S E E G A E Q R R R M T T N W T L D C C O V N S G S G W G
D D Y Q E N F O N I S R C F E E N N S Q T E T H N F Y Q E A K C E N E
A L Q K N Q N R S R C T E E N N T Q T D R H N L E E E D K C Q N S E
C E K K S I P L Q I R R C D E E R E D D T T L V T A T V E N
I O R K S T R E G P I R R C T E E V R E D D I S W E S H T D K N D
T R S Q E K V S F E H C D E K H N T R N C Y L O E K M T N
S Y Q E K L S F H C N E K Y N T R N C H I Q E K I A N
H C L R K O B T O K S K L D Q C D H R K N T O Q T E N L I N V S G
H C T S A E S T A S T A R D Q Q O S A E G S T E R K V V
F H K M R S H N R K R R Q O K R M Q E V I T E Q V R D R
H R V A R N R H K L E T C Q O S S R S E E Q E Y N S I E
Q E N N N R F L N H C E L Q R T D W D H S W T E Q S D Y R
Q E R K S R H I K E R C Q L Q R S N R D R S W T E L I N H
A T T C S D S Y C D L E Q R S E F D T E W O S K O E N T
D O T S E A S Y C D O R Q R E S N D D E D A Q T T S G
S T Y K N D R O S F F H R S N I H K L R K E S M E L V K L V E H N T T N
S S L K N D R O S L E H E S N T H E K L Q N E R T E V L V L N T M S
A K S H L E G N A K I N L C A E K K S N S V Q E Q N V T I K
V T S Y L O G N T K I N L C O E C K A N S K K E V R N A T I R G
Q S H Q T V N L E Y Q E L K V C Q S R I E T S N V I V G N Y
Q E N E T V P A L H E E L N I C E S R L N I S N T I V E N Y
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M O C K E R E K T R F V C M R R T V N S S R W T E V N E N
K I Y K S K T M E K F C R K K T T N Q T W S K E D A N
K W I X O S Q T T E K S C R K K A T T N Q T W N K E D T N
190.....200.....210.....220.....230

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Figure 5B

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LNSSKDOE CSH QAV T Q
LEALOE C L DATA T Q
NTSC T EHEM SST V R
SKFC N EPKL LNSI A R
SNFO N EPKL LNSI A R
LQNAHS A EAGE STR W R
LDRAMS D SOE DTS C R
RVNS D SOE DTS C R
DTASTRSS T QD K FTE V R
DTMSRTS T QD K FTE V R
ILTTS T YSK DKE E R
IWLTYC YSR DKE E R
DKTSATV C RKN S S
QKQAF VEKTSSTEVOCKE N G
ILEGRTCEV SNR GTR T A
EGRTCEV SNR GTR T A
VKDLQHHCV HDW SLR V Q
VAQXQCV HDW SLR V Q
VTYLENSR AASTKS IS R R
VTYKEER IS INIMSCV T R
QOTEK LSH FQOK L Q
GHQTO K FDY FQOK L Q
VSNQTSR AG K FQTV F Q
VSNQTSR AG K FQTV F Q
AKGRD LD K FTE E Q
AKGRD LD K FTE E Q
AGLEEV TD V FLA R R
IGLEEV TD V FLA R R
IGLEEV TD V FLA R R
DGTAT TD Y KE I Q
DGTAT TD Y KE I Q
IEATS I RAR PRAR Y Q
IEATT I RNSK PHAK Y Q
RPHS S SLOSC OPT WOODY QSSSHEAHALTAEC SCL SCL Q NSNS W Q
MONE E SLOSC OPT WOODY QSSSHEAHALTAEC SCL SCL Q NSNS W Q
DAKSKS SLEVED CAV A Q
DAKSKS SLEVED CAV V Q
ATS L DS L PGSS E Q
ATS L DS L PGSS E Q
VDSRS SLEVED KDDSS E Q
VDSRS SLEVED KDDSS E Q
LSARGGLEER PRSR R Q
LSARGGLEER PRSR R Q
IELTVE QD E LATE K Y
DGLTVE QD E LATE K Y
QKQEW CLETETD TO E Q
QKQEW CLETETD TO E Q
VTW I EAEELD EYI E R
VTW I EAEELD EYI E R
DTECCE E N A Q E Q R R
DTECCE E N A Q E Q R R
FERNVENTSC MVGGLD TLNT R R
SDRNMEGTSC QLEGLD T R R
ETET K TENETROL C V R S
MKLKRR NESS DLC F R C
AFISIDDS S K D Q
KFISIDDS S T S Q
DLENRYN SSE PRAK S K
EETKAFESSEADHGS K K
TSOCLNEG T Q
H W EN G AIS R K S
HK S S S DQOKRYT R R S
EHR S S S DQOKRYT R R S
CN TIEGLDNEKC S W
RCCD TVGGDEPARC D R
EKDTLHHS ASDMLECAI E E
EKDTVQH N TSDILOCAT S S
VENSS LALDK NYTL T R
AEDST HAVDK NYTA T R
STTVKWNQVLR S ESLELECAT F R
STTVKREAVR N TSDILECVK F R
GE T SE E DATE M R
AN L SO D BOTK F
STKT LORKTO AM E K
TRIT EORKYR KAM E K
LTIKDTICLTEL EYIN T R
AVSV DQVC GNE EGNOL Y
ATS T SD E ETS E R
RKDINQTNLTC OFTE V A
CKQVCNLTG OFTE V A
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FTYQOSE Y EDSK V Q
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Figure 5B (cont)

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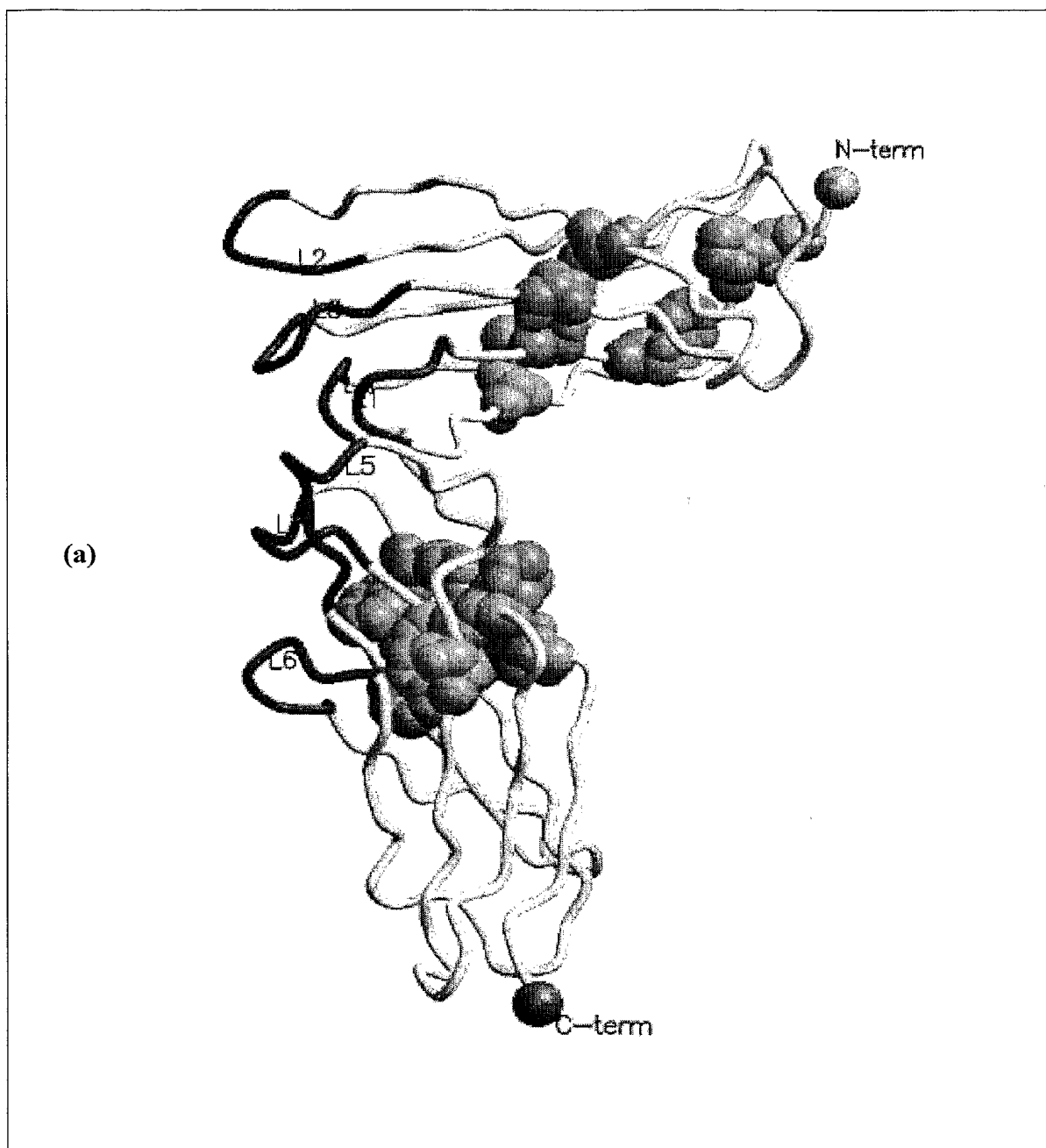
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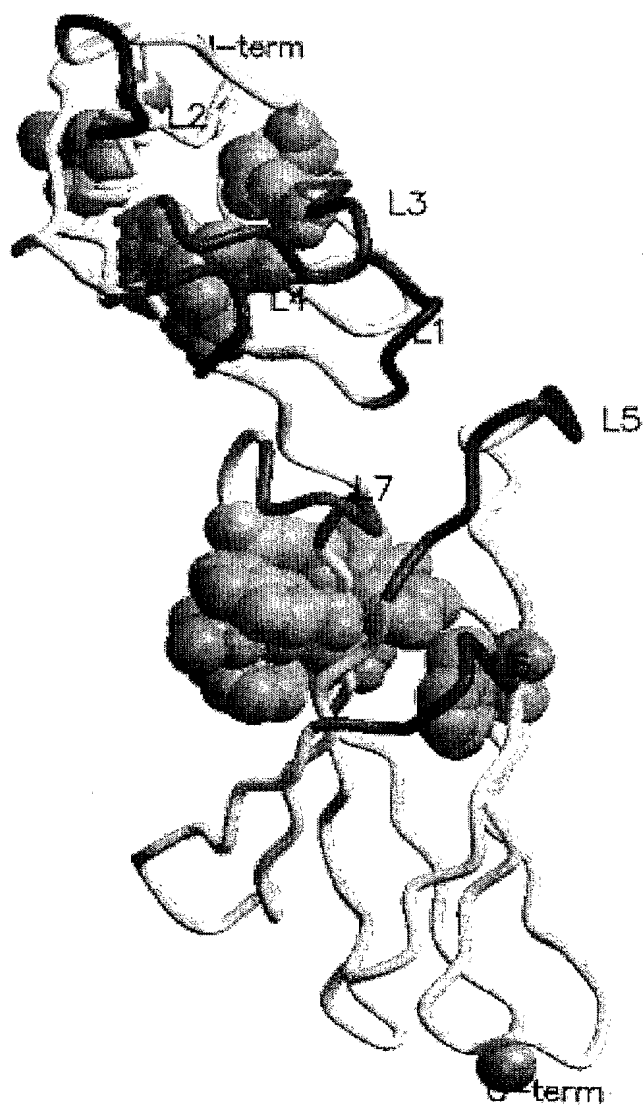
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Figure 5B (cont)

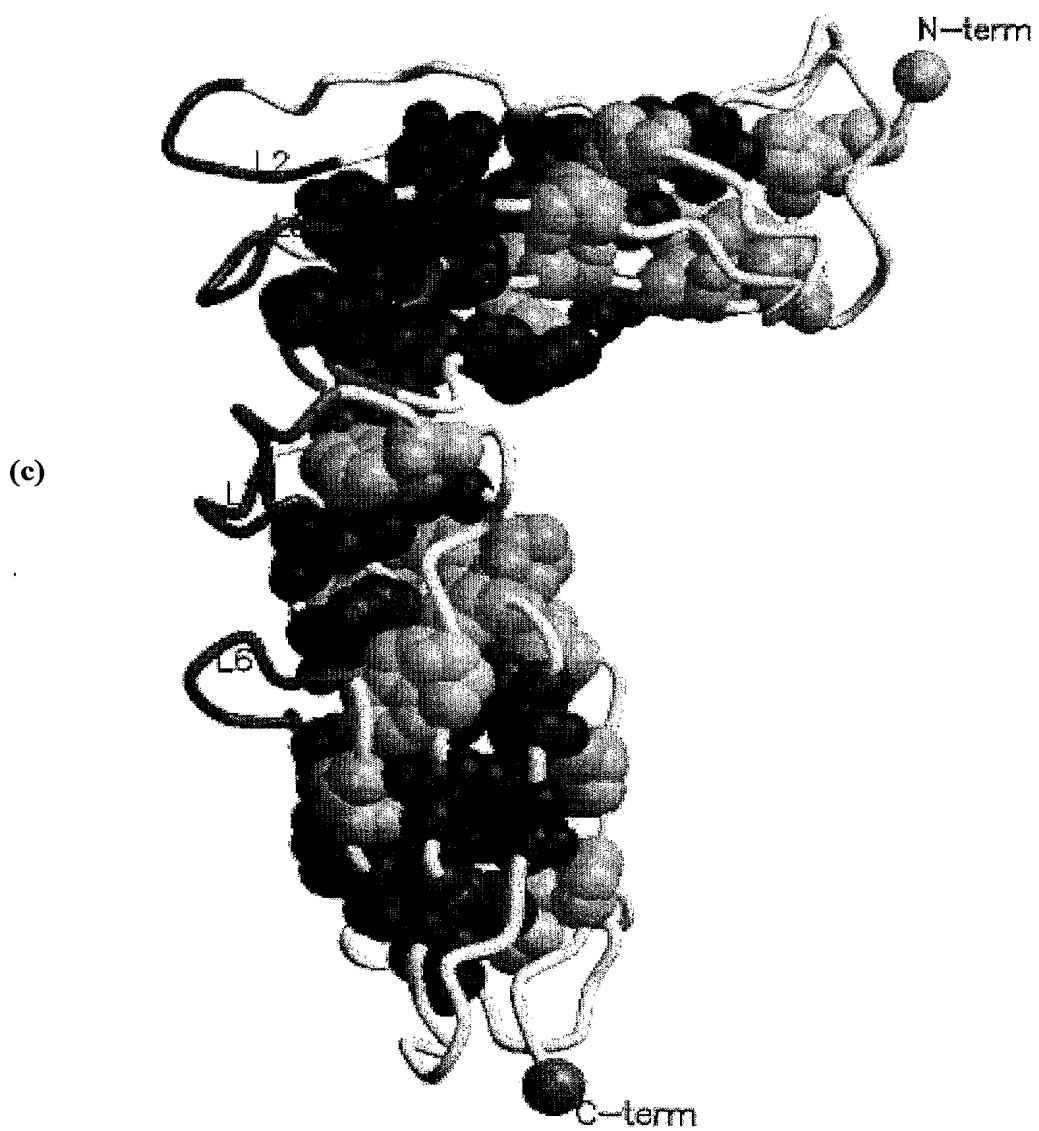
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**Figure 6(a)**

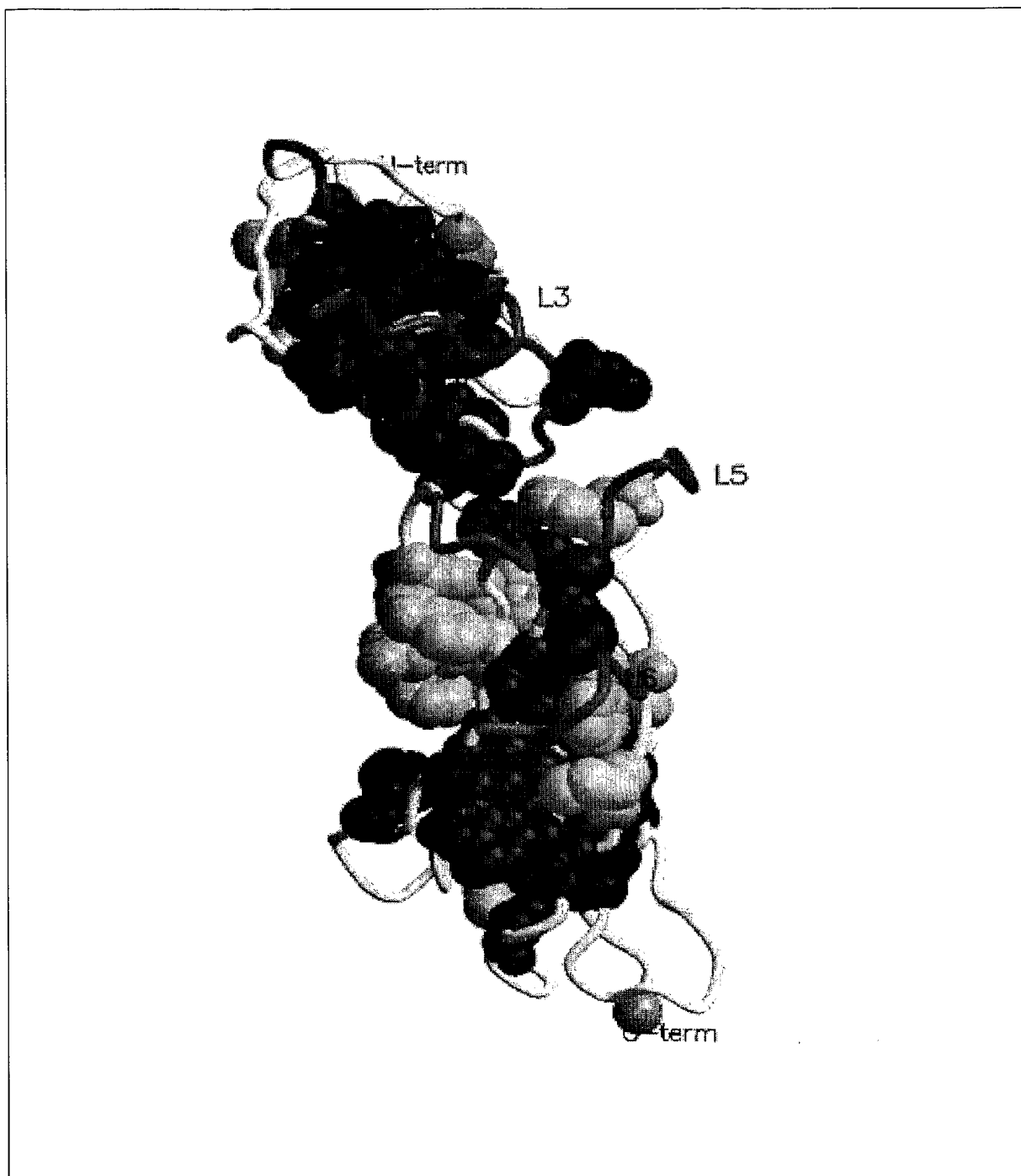
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**Figure 6(b)**

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**Figure 6(c)**

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**Figure 6(d)**

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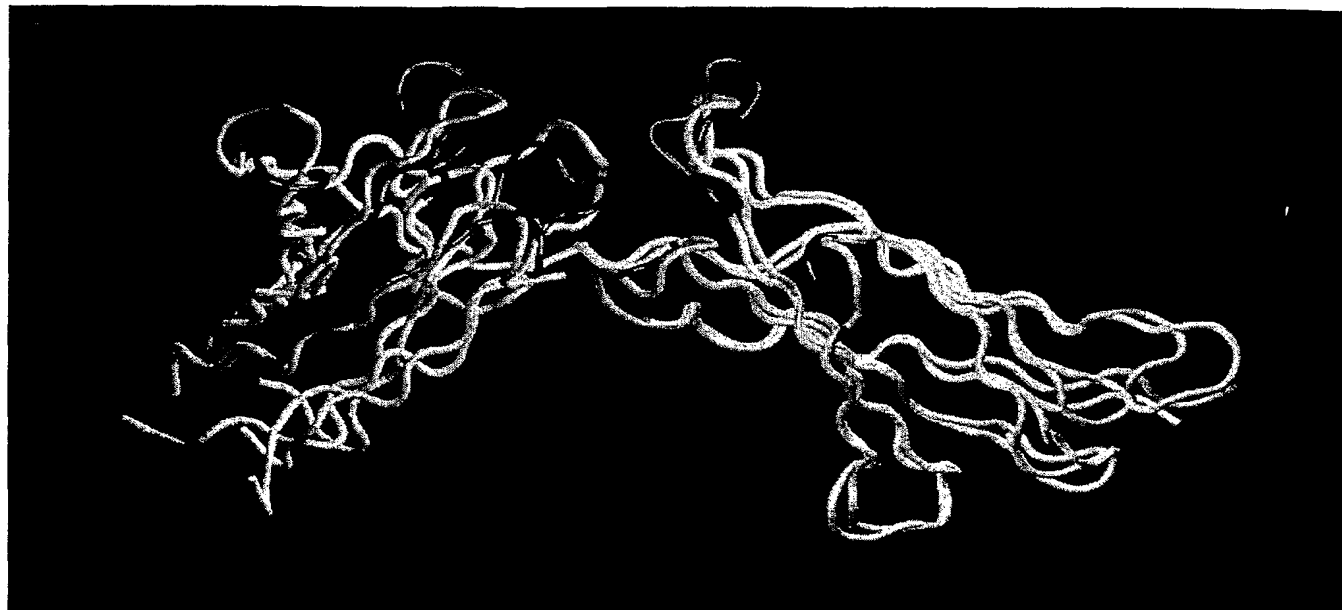


Figure 7